Registration

For registration, contact the NLTN Paific Office at: 800-536-NLTN (West Coast Only) or 510-540-3991

Registration Deadline:

Registration must be <u>received</u> by **January 28, 2000** Please register early!

NO CONFIRMATION LETTERS WILL BE SENT.

Cancellation:

At least 72 hours notice is required.

In compliance with the American Disabilities Act, individuals needing special accommodations should notify the NLTN-Pacific Office (510-540-3991) at least seven (7) days prior to the workshop.

For further information, please call:

National Laboratory Training Network - Pacific Office 800-536-NLTN

or visit our web site at

www.phppo.cdc.gov/dls/nltn/default.asp

e-mail: poffice@nltn.org

PROGRAM LOCATIONS

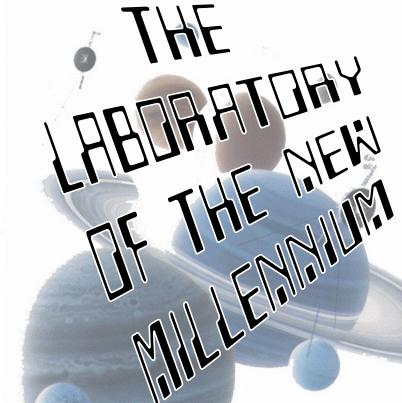
February 4, 2000
Industry Hills
Sheraton Hotel
One Industry Hills Parkway
City of Industry, CA
91744-0290
626-810-4455

February 5, 2000
Holy Names College
Regent's Theater,
Valley Center
for Performing Arts
3500 Mountain Blvd
Oakland, CA 94619

First Class Mail

National Laboratory Training Network Pacific Office California Department of Health Services 2151 Berkeley Way, Room 803 Berkeley, CA 94704





February 4, 2000

City of Industry, CA (00PA42)

February 5, 2000

Oakland, CA

sponsored by

(00PA43)

National Laboratory Training Network Pacific & Western Offices



The National Laboratory Training Network is a training system sponsored by the Association of Public Health Laboratories and the Centers for Disease Control and Prevention

Program Description

The allure of space flight has intrigued mankind since Jules Verne's *First Man on the Moon* over a century ago. In this new millennium we have reaped the benefits of America's space program. Medicine, especially laboratory medicine has played an important role in technology development and transfer into the civilian sector. For example, the VITEK automated microbial identification system was developed by aerospace engineers at McDonnall Douglas and is now used in over 6000 microbiology laboratories. Additionally, development of non-invasive testing technology is now becoming available to the clinicians. This program examines some of these developments and provides a glimpse into the future of medical laboratory science.

Course Objectives

At the conclusion of the workshop, participants will be able to:

- Outline the common physiological changes which occur due to decreased gravity and novel approaches in the collection and testing of human metabolites.
- 2. Summarize the development of space-developed technology that is currently common laboratory practice.
- 3. Discuss the problems and difficulties with the collection, containment and disposal of waste in zero gravity.
- Outline the principles and benefits for real-time urinalysis.
- 5. Discuss the challenges of managing water quality during prolonged periods of isolation.

Faculty

Darrell Chandler, Ph.D., Senior Research Scientist, Pacific Northwest National Laboratory, Department of Energy, Richland, Washington.

Daniel Feeback, Ph.D., Medical Director, Clinical Operations Laboratory, National Aeronautics and Space Administration, Johnson Space Center, Houston, TX.

Robert Janney, M.S., Section Supervisor, Medical Operations Training, Wyle Laboratories, National Aeronautics and Space Administration, Johnson Space Center, Houston, TX.

Paul W. Jones, B.S., Research Scientist, co-inventor of VITEK automated microbiology system, Boeing Co., Seattle, WA.

Donald W. Rethke, B.S., a.k.a. "Dr. Flush", Retired aerospace engineer (Hamilton-Sundstrand), developed Lunar Module environmental control systems, Shuttle space suite and lunar life support systems.

Phil Stepaniak, M.D., Flight Surgeon, Medical Operations, National Aeronautics and Space Administration, Johnson Space Center, Houston, TX.

Who Should Attend

This program will be of interest to all practitioners of laboratory medicine including public health, clinical and environmental technologists and technicians.

Program

	Program	
_	2000 Industry Hills Sheraton, C	
February 5,	2000 Holy Names Co	llege, Oakland
7:30 am	Registration	
8:45 am	Introduction	Dr. Jilly/Ms. Luck
9:00 am	Effects of Space on Physiology and Challenges of Physiology Monitoring	Dr. Stepaniak
10:30 am	Break	
11:00 am	Biosensors and Non-invasive Testing Technology	Mr. Janney
12:30 pm	Lunch	
1:30 pm	Life After Liftoff: Management of Human Waste in Microgravity	Dr. Flush, aka Mr. Rethke
2:15 pm	Automated Microbiology for Space-flight and Terrestrial Applications	Mr. Jones
3:00 pm	Break	
3:30 pm	Building A Better Mouse Trap: Real-Time Laboratory Analysis	Dr. Feeback
4:15 pm	Monitoring and Managing Water Quality in Prolonged Isolation	Dr. Chandler
5:00 pm	Post Test and Program Evaluation	Staff
5:15 pm	Adjournment	

Facilitators

Karen Breckenridge, M.B.A., MT(ASCP), Regional Coordinator, National Laboratory Training Network - Western Office, Denver, Colorado.

Bernard Jilly, Ph.D., MT(ASCP), Centers for Disease Control and Prevention, Training Advisor, National Laboratory Training Network - Pacific Office, Berkeley, California.

Diane Luck, M.H.S., MT(ASCP), Centers for Disease Control and Prevention, Training Advisor, National Laboratory Training Network - Western Office, Denver, Colorado.

Marguerite Oates, M.P.A., MT(ASCP)SBB, Regional Coordinator, National Laboratory Training Network - Pacific Office, Berkeley, California.

Continuing Education Units

Continuing education credits will be offered for laboratorians based on 6.0 hours of instruction. The NLTN-Pacific Office is an approved provider of continuing education for **California medical laboratory licensees** (accreditation #000022). This program qualifies for <u>6</u> contact hours of continuing education for California Clinical Laboratory licensees.

DIRECTIONS

CITY OF INDUSTRY

February 4, 2000

Industry Hills Sheraton can be reached by the Pomona Freeway (60) or San Bernardino Freeway (10). From 60, exit Azusa Ave North to

BURBANK
AMRONT

134

ROSE
SOWN

10

DOWNTOWN

10

DOWNTOWN

10

STUDIOS

10

STUDIOS

10

STUDIOS

10

SOWNTOWN

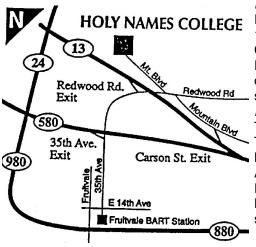
STUDIOS

Industry Hills Parkway. Make a left (west) on Industry Hills Parkway and proceed to the hotel.

HOLY NAMES COLLEGE

February 5, 2000

From the North: Take I580 south to 35th Ave, exit east. 35th becomes Redwood Rd. Cross over Highway 13 and follow signs to campus.



From the South: Take I580 north to Highway 13/Carson St exit. Take Carson to Mountain Blvd to Redwood Rd. Turn left onto Redwood and follow signs to campus.

From I80 north or south:
Take High St exit east.
Turn left on MacArthur
Blvd. Turn right on 35th
Ave, 35th becomes
Redwood Rd. Cross over
Highway 13 and follow
signs to campus.